AMLT22 PHYSICAL TESTING OF LEATHER

UNIT-1 STATISTICAL TESTING

- 1.1 Basic statistical principles
- 1.2 Selection of sampling location for physical as well as chemical testing of leather.
- 1.3 Different methods and principles employed for physical testing of various leathers measurement of tensile strength, stitch tearing strength, tongue tearing strength,
- 1.4 Modulus of elasticity at specified load and elongation at break.

UNIT-2 MEASUREMENT OF PHYSICAL PROPERTIES OF LEATHER:

- 1. Tear Strength.
- Teal Strength.
 Ball Bursting Strength (Lastometer).
- 4. Shrinkage Temperature.
- 5. Water vapour permeability.
- 6. Resistance to abrasion of sole leather.
- 7. Grain cracking (Conical Mandrel Test) in sole leather.
- 8. Resistance to cracking of grain in other leathers.
- 9. Resistance to repeated flexing.
- 10. Water penetration (Kubelka Method).
- 11. Dynamic waterproofness testing in both sole and upper leather.
- 12. Non-destructive testing of leather.

Reference Books:

- 1. An Introduction to the Principles of Physical Testing of Leather- Prof. S.S. Dutta, ILTA, Kolkata.
- 2. Technological Controls in Leather Manufacture- S.Bangaruswami, C.L.R.I.
- 3. The Chemistry and Technology of Leather- O' Flaherty, Roddy, Lollar, Robert E.Krieger Publishing Co. N.Y. (1977).